



Data Integration and Visualization System for Enabling Conceptual Biology

An integrated database and software system enabling retrieval and visualization of biological relationships across heterogeneous data sources. This new system is able to conceptually traverse different databases to produce testable hypotheses and lead towards answers to complex biological questions.

Market and application area

- Bioinformatics

Competitive advantage

Our system facilitates discovery of:

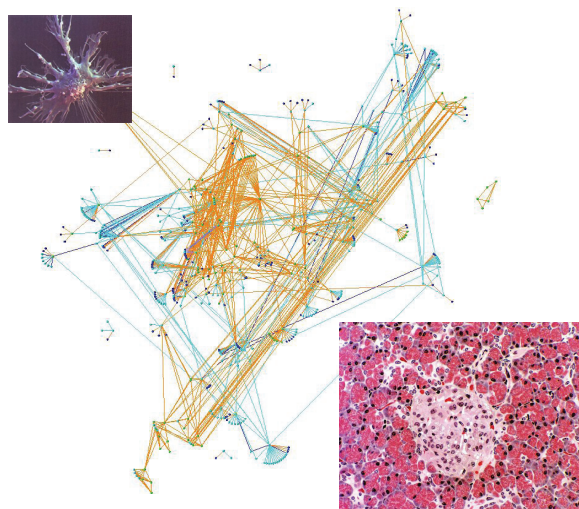
- Novel or unexpected relationships
- Formulation of new hypotheses
- Design of experiments
- Data annotation
- Interpretation of new experimental data
- Construction and validation of new network-based models of biological systems.

Technical description

Our integration approach is based on the premise that relationships between biological entities can be represented as a complex network. The context dependency is achieved by a judicious use of distance measure on these networks. Our system is able to conceptually traverse different databases to produce testable hypotheses and lead towards answers to complex biological questions.

Intellectual property

Patent pending WO2006/114479 "Visualization technique for biological information"



Why partner with VTT?

10 reasons for technology partnering with VTT

1. We are a key factor in Finland's success story and have the track record to prove it.
2. Licensing and co-venturing opportunities
3. Portfolio of more than 1000 patents and inventions
4. New business and product concepts based on strong IP and world class research
5. Combined experience of more than 2000 career research scientists in eight focused areas of technology
6. Active member in hundreds of scientific & business communities
7. Excellent track record as coordinator and partner in EU projects
8. TOP 50 R&D investors in Finland and 10 percent of global Fortune 500 as trusted partners
9. Market driven multi-disciplinary solutions
10. 65 years experience in R&D

Additional information

Timo Pulli, PhD

Business Development Manager

Tel: +358 40 720 7152

P.O.Box 1000, FI-02044 VTT, Finland

timo.pulli@vtt.fi